



RD-100

ROLAND DIGITAL PIANO

Roland

RD-100

ROLAND DIGITAL PIANO

ENGLISH

Owner's Manual

Thank you, and congratulations on your choice of the Roland RD-100 Digital Piano.

The RD-100 is the perfect entry-level digital stage piano with nine outstanding sounds, 64-voice polyphony, and numerous other functions that will prove useful to performing artists, music students, and teachers alike.

To get the most out of the RD-100 and to ensure many years of trouble-free service, we urge you to read through this manual thoroughly.

- To avoid confusion, let's agree to use the word "button" for all keys on the front panel, and only use "key" when referring to the RD-100's keyboard.

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**CAUTION**RISK OF ELECTRIC SHOCK
DO NOT OPEN**ATTENTION:** RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

For Canada**For Polarized Line Plug**

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

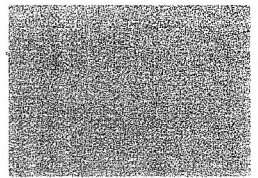
For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL
BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.



Important Notes

Power supply

- Do not use this instrument on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting the RD-100 to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the RD-100 near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This instrument may interfere with radio and television reception. Do not use it in the vicinity of such receivers.
- Do not expose the RD-100 to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the instrument.

Maintenance

- For everyday cleaning wipe the RD-100 with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent. Afterwards, be sure to wipe the instrument thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

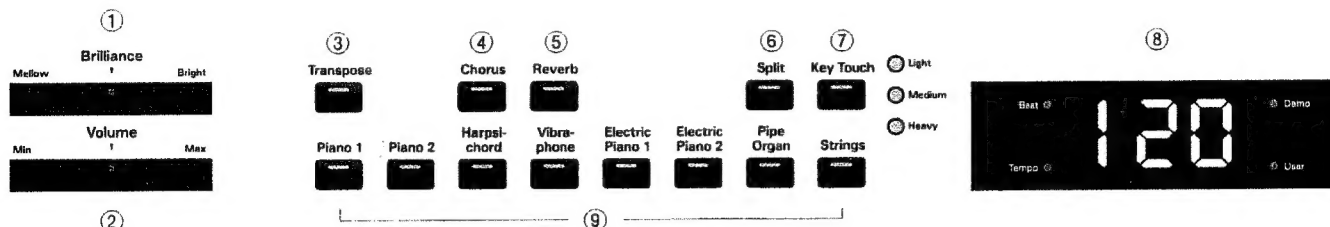
Additional precautions

- Use a reasonable amount of care when using the instrument's buttons, other controls, and jacks/connectors. Rough handling can lead to malfunctions.

- Never strike or apply strong pressure to the display.
- When connecting/disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the instrument during normal operation. This is perfectly normal.
- To avoid disturbing your neighbors, try to keep the instrument's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- When you need to transport the instrument, package it in the box (including padding) that it came in. Otherwise, you will need to use equivalent packaging materials, or a flightcase.

Panel Descriptions

Front Panel



① BRILLIANCE slider

Allows you to adjust the brightness of the sound.

② VOLUME slider

Allows you set the RD-100's output level.

③ TRANSPOSE button

Use this button to make the RD-100 sound in another key than the one you are playing in.

④ CHORUS button

Press this button to add a Chorus effect to the selected sound.

⑤ REVERB button

Press this button to switch the Reverb effect on or off.

⑥ SPLIT button

This button allows you to split the keyboard in two halves in order to play different sounds with your left and right hands.

⑦ KEY TOUCH button

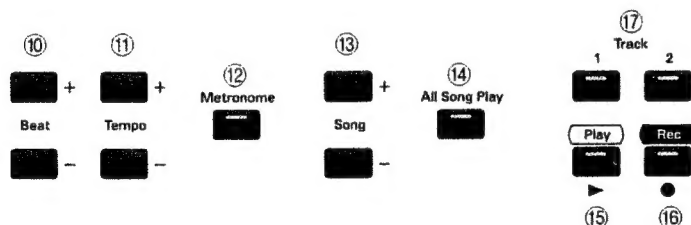
Allows you to fine-tune the keyboard's response to your playing style in three levels.

⑧ Display

The display informs you about the song number, the value you set for a parameter or function, etc.

⑨ Tone selection buttons

Press one or two of these buttons to select the desired sound. By simultaneously pressing [PIANO 1] and [PIANO 2], you select the ninth sound, called Honky-Tonk. Other combinations of two sounds are also possible (*Dual*).



⑩ BEAT buttons

Use these buttons to set the time signature of the metronome.

⑪ TEMPO buttons

Use these buttons to set the Song and/or metronome tempo.

⑫ METRONOME button

Allows you to switch the metronome on and off.

⑬ SONG [+]/[-] buttons

Use these buttons to select the demo song you want to listen to.

⑭ ALL SONG PLAY button

Press this button to start playback of all demo songs.

⑮ PLAY button

This button allows you to start (and stop) playback of the demo songs or the song you have recorded.

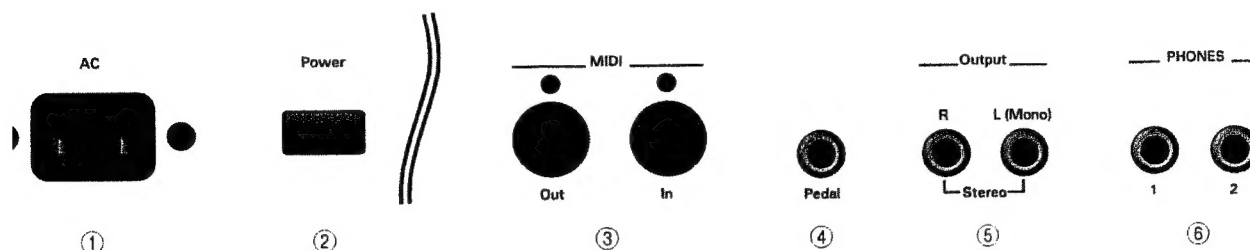
⑯ REC button

Press this button to record what you play on the piano.

⑰ TRACK buttons

Allow you to select the track for recording.

Rear Panel



① AC connector

This is where you need to connect the supplied power cable.

② POWER switch

Press this switch to switch your RD-100 on and off.

③ MIDI IN/OUT jacks

If you wish to control an external instrument from your RD-100, connect its MIDI IN jack to the RD-100's MIDI OUT connector.

To control the RD-100 using an external MIDI instrument (se-

quencer, synthesizer, etc.), connect its MIDI IN jack to the MIDI OUT connector of the external instrument.

④ PEDAL jack

This is where you can connect the supplied DP-6 pedal that will function as Hold pedal (to sustain the notes you are playing).

• This is a stereo jack, so you could also use a break-out cable and work with two pedals.

⑤ OUTPUT R & L (Mono) jacks

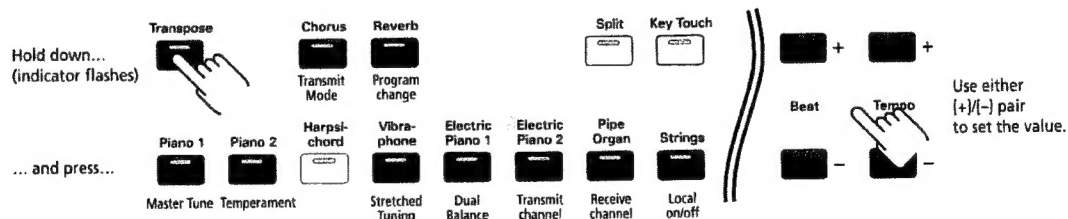
Connect these jacks to a keyboard amplifier (KC series), your HiFi set, a pair of active speakers (of the Roland MA series), etc.

⑥ PHONES jacks

This is where you can connect optional stereo headphones (e.g. of the Roland RH series). Feel free to use either or both jacks simultaneously.

Alternate Button Functions

Some of the RD-100's buttons have two functions. To access the "other" functions (the ones that are not printed on the front panel), you must hold down the [TRANPOSE] button while pressing the button assigned to the desired function. You can then set the value of the selected parameter using the BEAT or TEMPO [+]/[-] buttons.



These alternate functions will be explained later on in this manual.

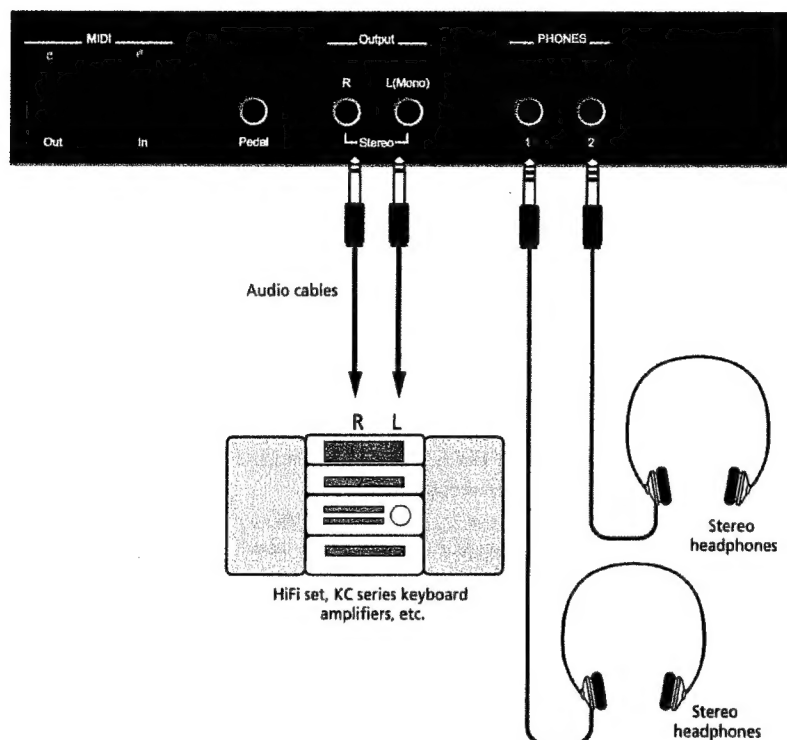
About the [+]/[-] Buttons

As you see, you can use either [+]/[-] pair indicated above for setting the value of the selected function. But like the buttons that have two functions, the BEAT and TEMPO button pairs also have a "dedicated" function: use BEAT to set the metronome's time signature, and TEMPO to set the tempo.

Connections

Your RD-100 needs to be connected to a HiFi or keyboard amplifier in order to be audible. If your amplifier is mono, connect the RD-100's L (Mono) output to the amplifier's input.

You can also use one or two pairs of headphones (Roland RH series), in which case you do not need an amplifier.

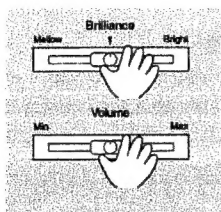


1. Connect the **INPUT** jacks of the HiFi or keyboard amplifier to the RD-100's **OUTPUT** jacks using a pair of audio cables.
 • If the amplifier is fitted with RCA/phono jacks, consider using a pair of Roland PJ-1M audio cables (option).
2. Lower the volume on the RD-100 and the device to be connected.
3. Switch off the RD-100 and the device to be connected.
4. Connect the RD-100 to the amplifier, active speakers, etc.
5. Switch on the RD-100 and the external device.
6. Adjust the volume of the RD-100 and the external device.

Main Functions

Volume and Brilliance

1. Use the **[VOLUME]** slider to adjust the overall volume.
The “Max” position corresponds to the maximum volume, while the “Min” position means you won’t hear the RD-100.
 - The setting of this slider also determines the volume in the headphones.

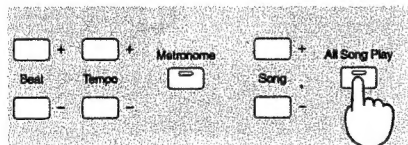


2. Use the **[BRILLIANCE]** slider to set the desired brightness (tone color) of the sound.
At the “Bright” position, a bright tone is obtained, while a rounder (mellower) tone is obtained by setting the slider to the “Mellow” position.

Listening to the Demo Songs

The RD-100 contains 23 demonstration songs. Here’s what you need to do to listen to them:

1. Press the **[ALL SONG PLAY]** button.

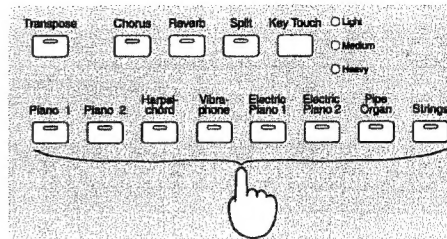


Demo song playback will start from the first song.

2. Press the **[ALL SONG PLAY]** button again (indicator goes dark) to stop playback.
While the indicator of the **[ALL SONG PLAY]** button lights, all demo songs will be played back in sequence (this is called *All Song Play*).
 - See the Demo Song list at the end of this manual for the names, numbers, and composers of the demo songs.

Selecting Sounds

Your RD-100 comes with 9 high-quality sounds. To select them, press one of the Tone Selection buttons:



The indicator of the button you press will light. Play a few notes on the keyboard to audition the selected sound.

Tone	Description
Piano 1	Full-sized concert grand piano (sampled using Roland's proprietary True Stereo Sampling® technology). 32-note polyphonic.
Piano 2	Concert grand piano sound (64-note polyphonic).
Harpsichord	Delicate and elegant harpsichord sound.
Vibraphone	A resonant vibraphone.
Electric Piano 1	Sound of an analog electric piano.
Electric Piano 2	Sound of a synthesizer electric piano.
Pipe Organ	A stately pipe organ sound.
Strings	A string ensemble sound.
Honky-Tonk	(Simultaneously press [PIANO 1] and [PIANO 2]) Cheerful piano sound that is slightly out of tune.

Mixing Two Sounds

The RD-100 allows you to play two sounds simultaneously (we already showed you how to select the Honky-Tonk sound which is, in fact, a combination of the Piano 1 and 2 sounds). Playing two sounds simultaneously is called *Dual Play*.

By way of example, let us select the Piano 1 and Strings sounds:

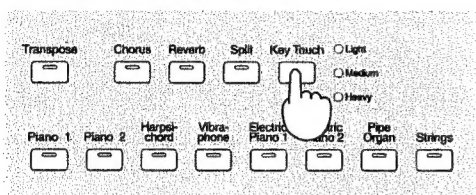
Hold down the [PIANO 1] button while pressing the [STRINGS] button.

The indicators of these two buttons now light to signal that you have selected the Dual mode. Play a few notes on the keyboard to audition this Dual combination.

- You can adjust the volume balance of the two Tones used with Dual Play.

Changing the Keyboard Touch

The RD-100 allows you to change the sensitivity of the keyboard. This is a feature unique to digital pianos, one which you cannot obtain with an acoustic piano. Note that this does not change the keyboard's "feel", it merely changes the way in which your playing is interpreted and converted into velocity values.



1. Press the [KEY TOUCH] button to select a key touch you like.

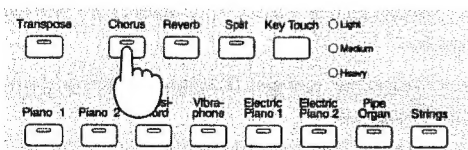
Pressing the button allows you to select from the three different Key Touches in order, as follows:

Light:	Fortissimo (ff) can be obtained with weaker touch than usual, so, you will feel that the keyboard is lighter. This allows even a small child to play the piano easily.
Medium:	This is the most natural touch for the keyboard, and is closest to that of an acoustic piano. This is automatically selected when the piano is switched on.
Heavy:	Fortissimo can be obtained only with forceful playing, so you will feel that the keyboard is heavier. When this is selected, you can express feelings even more strongly by playing the piano dynamically. This can be selected by a player with strong finger touch, or one who wishes to strengthen their fingers.

Using Chorus and Reverb

Adding Chorus

Chorus is an effect that gives the impression that several instruments are being played at the same time. As a result, the sound will be fatter and have more presence. Seven levels of depth for the Chorus effect are available for selection.



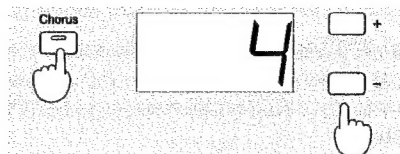
Press the [CHORUS] button and confirm that its indicator is lit.

- The Chorus effect can be switched on and off for each Tone separately.

Changing the Depth of the Chorus

Select the depth you like with the [+/-] buttons while holding the [CHORUS] button down.

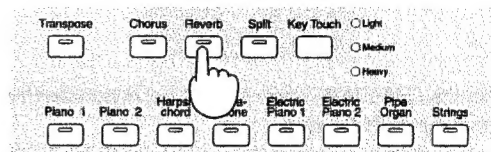
The setting range for the Chorus Depth is 1~7.



- "4" is automatically selected when the piano is switched on.

Adding Reverb

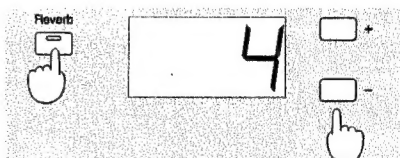
By using the Reverb effect, you can obtain pleasant reverberations like those in a concert hall. Seven levels of depth for the Reverb effect are available for selection.



Press the [REVERB] button and confirm that its indicator is lit.

Changing the Depth of the Reverb

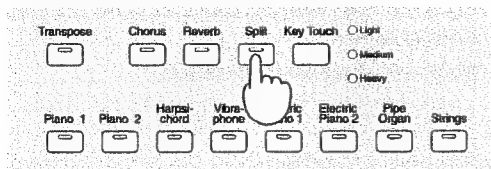
Select the depth you like with the [+/-] buttons while holding the [REVERB] button down. The setting range for the Reverb Depth is 1~7.



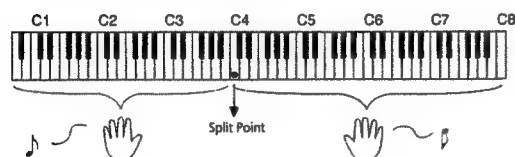
- "4" is automatically selected when the piano is switched on.

Splitting the keyboard

The RD-100 allows you to divide the keyboard into two sections, upper and lower, and to play two different Tones. Dividing the keyboard is called *Split*, and the key where the keyboard is split is called *Split Point*.



1. Select one of the preset Split Tone combinations (see below) by pressing the relevant Tone Selection button.
2. Press the [SPLIT] button to split the keyboard.
Play with your left and right hands to confirm the Split function has been switched on.



3. Press the [SPLIT] button to cancel the Split Mode.

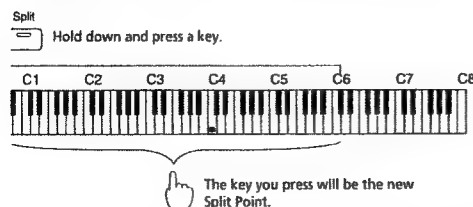
Tone	Lower Tone	Upper Tone
Piano 1	Acoustic Bass	Piano 1
Piano 2	Acoustic Bass	Piano 2
Harpsichord	Strings	Harpsichord
Vibraphone	Acoustic Bass	Vibraphone
Electric Piano 1	Acoustic Bass	Electric Piano 1
Electric Piano 2	Acoustic Bass	Electric Piano 2
Pipe Organ	Pipe Organ	Harpsichord
Strings	Strings	Piano 1

- Chorus cannot be applied to the Acoustic Bass sound.

Changing the Split Point

Hold down the [SPLIT] button while pressing one of the keys below.

The key you press becomes the new Split Point.



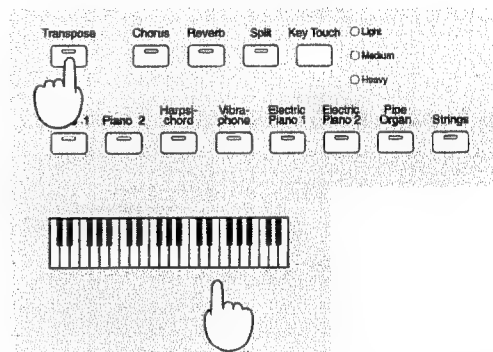
The Split Point can be set from A0~C6 and is retained until the piano is switched off.

- When the piano is switched on, C4 will be automatically selected.
- If you split the keyboard during Dual Play, the Tone of the Upper section will be automatically selected and the corresponding Split Tone will be played.

Key Transpose Function

Using the Transpose function, you can transpose the entire keyboard. This means that the RD-100 will sound in another key than the one you are playing in (see the example on page 12). Transpose can be used for two purposes: (a) to play a song in an "easy" key while sounding in a "difficult" one; (b) to accommodate the voice of a singer.

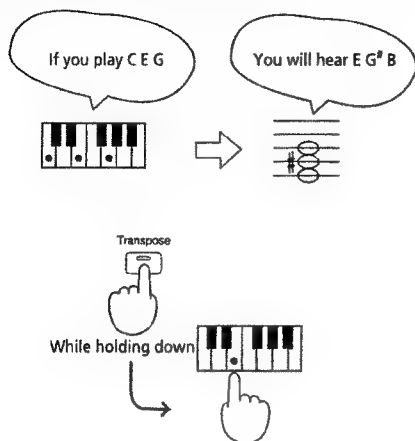
Transposition via the Keyboard



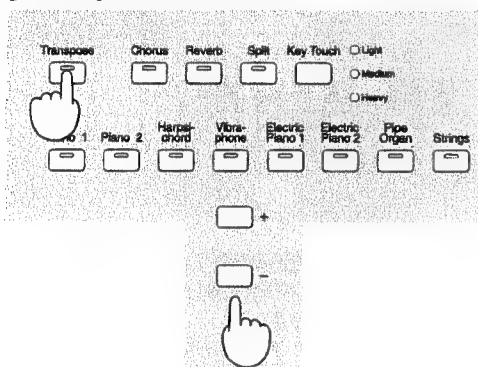
1. While holding the [TRANPOSE] button down, press the key that corresponds to the main note ("root") of the pitch you wish to transpose to.
The indicator of the [TRANPOSE] button lights, and you can play in the transposed key.
- When the indicator lights, the Key Transposition is on. When it is dark, it is in the normal condition without Key Transposition. You can thus alternate between "no transposition" and "transposition" simply by pressing the [TRANPOSE] button (the interval you set will be remembered until you switch off your RD-100).
- When the display shows "0", the indicator of the [TRANPOSE] button does not light because activating it would result in "no transposition" anyway.

Example: playing a piece in E Major with the fingering of C Major

Press the **E** key while holding the **[TRANPOSE]** button down, so that you hear an **E** every time you play a **C**.

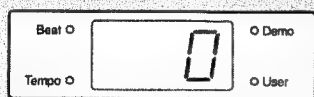


Key Transposition with the [+/-] Buttons



Hold down the **[TRANPOSE]** button while setting the desired transposition interval.

Each time you press the **[+/-]** buttons, the key is shifted by one semitone. Pressing both **[+/-]** buttons simultaneously will set it to C (0).



The setting range is -6~0~5.

- The Key you set will be retained until the piano is switched off. When the indicator is lit, Key Transposition is on. When it is dark, it is in the normal condition, without any Key Transposition.
- When the display shows "0", the indicator for the **[TRANPOSE]** button does not light because activating it would result in "no transposition" anyway.

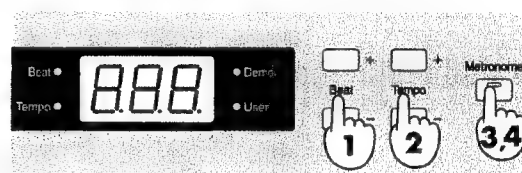
Example: playing a piece in E Major with the fingering of C Major

If you consider C Major as the basic key, there are 4 keys up to "E" that corresponds to the E. You must therefore select the value "4".

- "0" is automatically selected when the piano is switched on.
- The Key Transpose function only applies to the Tone you are currently playing.
- The demo songs cannot be transposed.

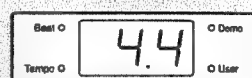
Using the Metronome

The RD-100 includes a metronome to which you can play the keyboard. The Beat (time signature) and tempo can be changed to your liking. Furthermore, the metronome's volume can be set in 7 steps.



1. Select a desired beat (time signature) by pressing the **Beat [+/-]** buttons.

Pressing both **BEAT [+/-]** buttons simultaneously will set the 4/4 time signature:



The figures shown in the display represent the beats as follows:

Display	Time Signature	Display	Time Signature
0.4	Only upbeat	7.4	7/4
2.4	2/4	3.8	3/8
3.4	3/4	6.8	6/8
4.4	4/4	9.8	9/8
5.4	5/4	12.8	12/8
6.4	6/4		

2. Press the **TEMPO [+/-]** buttons to select the desired tempo. Tempo can be set from ♩ = 20~250. Check the tempo in the display.

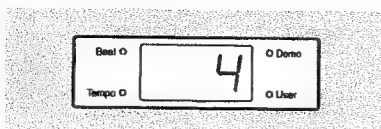


3. Press the **[METRONOME]** button (indicator lights) to start the metronome.
4. To stop the metronome, press the **[METRONOME]** button again and confirm the indicator goes out.

To change the volume of the Metronome

While holding down the [METRONOME] button, set the volume with the [+/-] buttons.

The volume of the Metronome can be set in seven levels, (1~7).

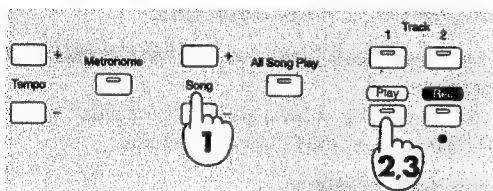


- "4" is automatically selected when the piano is switched on.

Listening to a Demo Performance

Practicing the piano also involves listening to how other musicians play a given piece. Your RD-100 includes many demonstration songs. Listen to these songs before actually playing the piano.

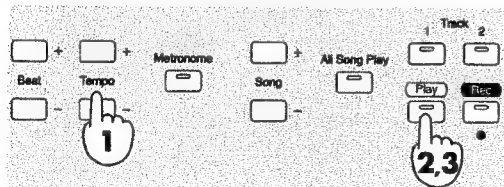
Playing Back a Demo Song



1. Select the Song Number with the SONG [+/-] buttons.
2. Press the [PLAY] button to play the selected song.
3. Press the [PLAY] button again to stop playing.
 - The Demo Song List shows the Song Names and Song Numbers (see the end of this manual).

Changing the Tempo of the Song

The RD-100 allows you to change the tempo of the song. Changing the tempo does not affect the pitch.



1. Select the desired tempo with the TEMPO [+/-] buttons.
2. Press the [PLAY] button, and the song will be played at the set tempo.
 - You can change the tempo even while the song is playing.
3. Press the [PLAY] button again to stop playback.
4. Press the two TEMPO [+/-] buttons simultaneously to return to the original (stored) tempo value.
 - Sometimes, the tempo and/or beat change(s) in the middle of the song. The display, however, will keep showing the tempo value used at the beginning of the song.

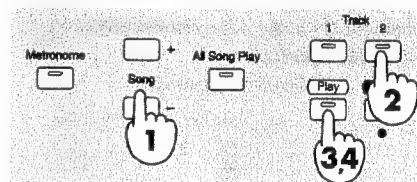
- You cannot change the beat while a song is being played.

Listening To The Left And Right Parts In Isolation

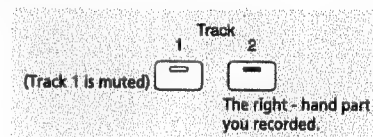
A tape recorder records two channels for the sounds played by the right speaker and that by the left speaker. The place where a "channel" is recorded is called a *track*.

The RD-100 uses a similar system: what is played with the *right* hand is stored on *Track 2*, while what is played by the *left* hand is recorded on *Track 1*. This is very convenient for piano lessons, since you can practice each hand separately.

Some demo songs include pieces for four-hand performances. In a four-handed piece, each Track has a different player. By switching off one track, you play one part while the RD-100 takes care of the other.



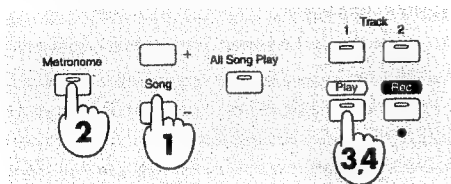
1. Select a Song Number using the SONG [+/-] buttons.
2. Press the [TRACK 2] button and confirm that the indicator is dark.



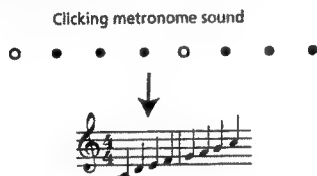
3. Press the [PLAY] button to start playback.
4. Press the [PLAY] button again to stop playback.
 - When Track 2 is lit and Track 1 is dark, only the right-hand part will be played.

Starting With A Count-In

When you play the piano along with a demo song, it may be difficult for you to start in time with the demo song. In that case, you can use the Count-In function that will count in 2 measures before playback starts.



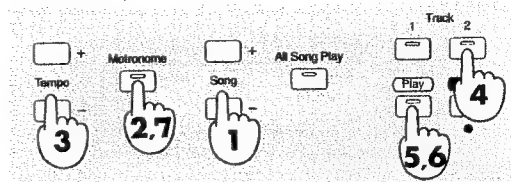
1. Select the song you want to play with the SONG [+/-] buttons.
2. Press the [METRONOME] button to activate the metronome.
3. Press the [PLAY] button. The song will start playing after a two-measure count-in.



4. Press the [PLAY] button again to stop playback.

Practicing with the Metronome

The RD-100 is equipped with a metronome. This may come in handy for getting the timing of difficult phrases right.



1. Select a Song Number with the SONG [+/-] buttons.
2. Press the [METRONOME] button to activate the metronome.
3. Select a desired tempo by pressing the TEMPO [+/-] buttons.
As a rule, you should start out with a relatively slow tempo and then increase it as you start coming to grips with the piece.
• If you press the both the TEMPO [+/-] buttons at the same time, the original tempo will be restored.
4. Press the [TRACK 2] button, and confirm that the indicator goes out.
Practice the right-hand part by playing along with the left hand part of the Demo Performance.
5. Press the [PLAY] button.
After a two-measure count-in, the song will start playing at the selected tempo.
6. Press the [PLAY] button again to stop playback.
7. Press the [METRONOME] button to stop the metronome.

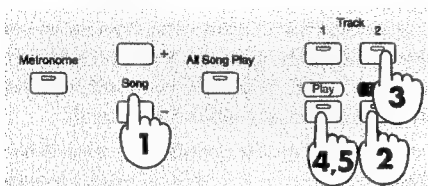
Recording And Related Functions

Recording

Playing Along with the Demo and Recording

The RD-100 allows you to play along with a demo song and record your performance. When you later play back the recorded music, it can be quite helpful in determining where you may need more practice.

For example, when you have finished practicing the right-hand part, try recording it to see how well you do. The demo song can still supply the left-hand part for your recording.



1. Select the song number using the SONG [+/-] buttons.

- Your performance is recorded to Track 1 and Track 2 in Song number "0". Any existing data will be automatically erased when new data is recorded.

2. Press the [REC] button and confirm that the indicator lights.

The RD-100 is now ready to record your performance.

- Press the [REC] button again if you do not want to record after all.

3. Press the [TRACK 2] button and confirm that the indicator flashes.

4. Press the [PLAY] button to start recording after a two-measure count-in.

Play the right-hand part along with the left-hand part of the demo song.

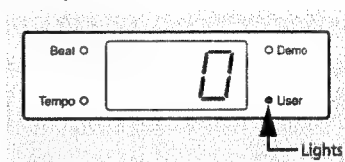
- If you start playing without pressing the [PLAY] button, the RD-100 will start recording right away without any count-in.

5. Press the [PLAY] button to stop recording. The display now shows song number "0".

Playback Of Your Recording



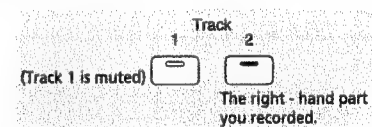
1. Select song number "0" by pressing SONG [+/-] and [-/-] simultaneously.



2. Press the [PLAY] button to start playback of the recorded data.

The right-hand part you played and the left-hand part of the demo song are played back.

If the indicator of Track 2 is lit and that of Track 1 is dark, only the right-hand part of your performance will be played. Press [TRACK 1] to once again hear the left-hand part.

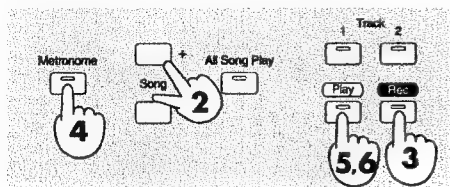


If the indicator of Track 1 is lit and that of Track 2 is dark, only the left-hand part (of the demo performance) will be played.

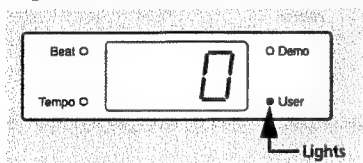
3. Press the [PLAY] button to stop playback.

Recording Your Own Music

As stated above, you can use the two tracks to record the left-hand and right-hand parts separately. But you could also take advantage of the RD-100's tracks for recording two separate parts (using different sounds).



1. Select the sound you want to use for recording, then set the Chorus, Reverb, Tempo, etc.
• You cannot change the Tempo or Beat while recording.
2. Select song number "0" with the SONG [+/-] buttons.

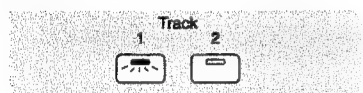


Your own versions can only be recorded in song number "0".

3. Press the [REC] button.

The indicator(s) for the track(s) where no data are recorded begin blinking. This is the Recording Standby mode.

- Press the [REC] button again if you do not want to record after all.



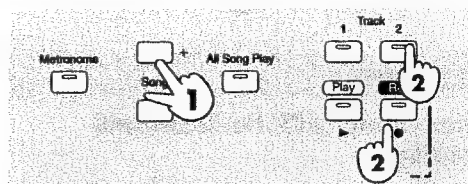
If neither Track indicator starts blinking, it means that both tracks already contain data.

Press either TRACK button to cause the corresponding indicator to blink. Now, when the RD-100 starts recording, the data of that track will be erased, and new data will be recorded. You cannot restore data that have been erased in this way.

When the indicator for a Track lights steadily, the performance data recorded there will be played back when you begin recording. If you do not want to hear those data, switch the track off by pressing its button before pressing [REC].

4. Press the [METRONOME] button if you wish to use the metronome while recording.
5. Press the [PLAY] button. The RD-100 starts recording after a two-measure count-in. Start playing the piano.
• If you start playing without pressing the [PLAY] button, the RD-100 will start recording right away without any count-in.
6. Press the [PLAY] button to stop recording.

Erasing the Recorded Data



1. Select song "0" with the SONG [+/-] buttons.
2. Press the [REC] button while holding down the Track button that contains the data you want to erase.
• Once the data is erased, it cannot be restored.

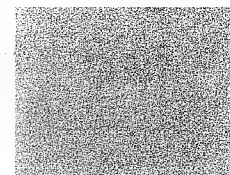
Note About Recording

When in Recording Standby mode, if you press the button for a track that contains data (causing the indicator to begin blinking), recording will start, and the newly recorded data will replace the previously recorded data. Data erased in this way cannot be restored.

There is a limit on the number of notes that can be recorded in the unit. If a pedal is used, the pedal messages are recorded. When the memory is almost full during recording, the indicators of the TRACK buttons start flashing faster. When no more data can be recorded, the REC indicator will go out, and recording stops automatically.

The recorded data will be retained in memory for approximately 8 hours switching off the RD-100 and disconnecting it from the wall socket. If you do not want to lose your songs, record them using an external sequencer.

- It is not possible to transfer the recorded song ("0") to a sequencer via MIDI. So be sure to use an external sequencer for all songs you wish to keep.



Other Useful Functions

Using Other Tunings

The RD-100 allows you to play classical music, such as baroque with the tuning actually used in that period.

Most music today is composed and played based on the assumption that Equal Temperament (the most common tuning method) will be used. However, various different tunings were in existence during the age of classical music. By playing a piece using such an "old" tuning, you should be able to hear the natural sonorities of the chords, and appreciate the piece in the way it was originally intended.

1 EQUAL: This tuning divides the octave equally into 12 intervals. All pitches have an equal, slight amount of ambiguity.

2 PYTHAGOREAN: This method of tuning was invented by the famous philosopher Pythagoras. It resolves the ambiguity of the fourths and fifths. The third, however, is somewhat imperfect, but melodies sound clearer.

3 JUST (MAJOR): A method of tuning which resolved the ambiguousness of fifths and thirds. Quite beautiful sonorities are produced with chords, but the scale is unbalanced, so it is not well-suited for melodies.

4 JUST (MINOR): With Just tuning, the tuning for major is different from that for minor. The same effect as the major version can be obtained with the minor one.

5 MEAN TONE: A temperament which adds some compromises to Just temperament, and facilitates transposition.

6 WERCKMEISTER: By combining the Mean Tone and Pythagorean temperaments, it allows for playing in any key.

7 KIRNBERGER: As a result of improvements made to the Mean Tone and Just temperaments, it is relatively tolerant towards transposition, and can be used to play in all keys.

When you play using a tuning other than Equal Temperament, you need to specify the root/fundamental ("C" for major and "A" for minor) according to the key of the song to be played. For ensemble playing with other musical instruments, pitches will differ depending on the key. Therefore, you should set the RD-100 to the same basic pitch as the other instrument.

The display indicates the notes as follows:

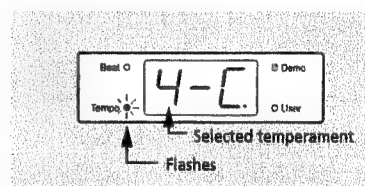
Display	Note	Display	Note
C	C	F	F#
C	C#	G	G
d	D	G	G#
d	D#	A	A
E	E	A	A#
F	F	b	B

Selecting The Temperament

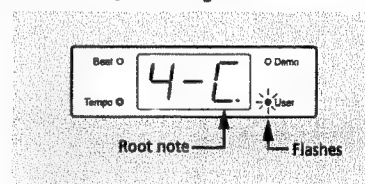
1. Press the [PIANO 2] button while holding down the [TRANPOSE] button.

The display shows the Tuning Method currently selected, and the root note.

The root note is shown at the right and the temperament at the left.



2. Select the desired temperament with the [+/-] buttons.
3. Press the [PIANO 2] button again.



4. Select the root note with the [+/-] buttons.
5. Press the [TRANPOSE] button and confirm that the indicator goes out.

The temperament you select will be used until you switch off the RD-100 or until you select another temperament.

- When the RD-100 is switched on, the Equal Temperament is automatically selected.

Master Tune

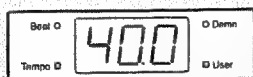
In some cases, it may be necessary to tune the RD-100 an acoustic instrument. Otherwise, the whole performance will be spoiled. Generally, you can adjust the pitch of the instrument by playing the Middle A key ("A4") and set it to the same pitch as the other instrument. This pitch is shown in Hertz, and is called the *standard pitch*. Setting the pitch to the same Hz is called *tuning*.

1. Hold down the [TRANPOSE] button while pressing [PIANO 1].

2. Adjust the pitch using the [+/-] buttons.

The standard pitch can be set to any value between 415.4 and 466.1 Hz.

The display shows three figures. These represent: the first decimal place, number of units and tens (from right to left).



The above value represents "440.0 Hz".

3. Press the [TRANPOSE] button and confirm that the indicator goes out.

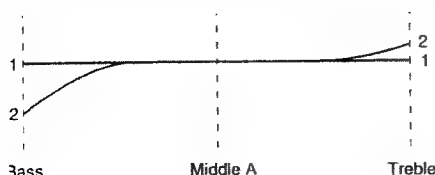
The pitch you set will be retained until the RD-100 is switched off.

- When the RD-100 is switched on, this value is reset to "440.0Hz".

Stretched Tuning

Stretch Tuning is a tuning method specific to pianos. The pitch of a piano is generally tuned lower in the bass, and higher in the treble compared with equal temperament. This is done because low notes, when tuned right, sound a little sharp, while treble notes sound flat. The tuning curve shows the actual pitch change of the tuning compared to the pitch change in the treble of the equal temperament. By changing the tuning curve, the chords will sound subtly different.

Display	Description
1	This is a standard tuning curve which is suitable for the Dual Play or ensemble with the other musical instrument.
2	This is the tuning curve that stretches the bass and treble. This is suitable for piano solo.



1. Hold down the [TRANPOSE] button while pressing the [HARPSICHORD] button.

2. Select curve "1" or "2" with the [+/-] buttons.

3. Press the [TRANPOSE] button and confirm that the indicator goes out.

The tuning curve you have selected here will be retained until the RD-100 is switched off.

- When the RD-100 is switched on, "2" will be automatically selected.
- Even when using a tuning method other than Equal Temperament, the tuning curve can be set.
- This Stretch Tuning only applies to Piano 1 and Piano 2.

Volume Balance for Dual Play

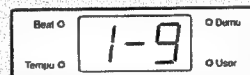
You can change the volume balance of the two Tones you play simultaneously. Higher values increase the volume.

1. Press two Tone Selection buttons at the same time to turn to the Dual Play mode.

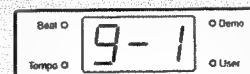
2. Hold down [TRANPOSE] while pressing the [ELECTRIC PIANO 1] button.

3. Adjust the volume balance with the [+/-] buttons.

"+" increases the volume of the right Tone.



"-" increases the volume of the left Tone.



Monitor the volume balance by playing a few notes on the keyboard.

4. Press the [TRANPOSE] button and confirm that the indicator goes out.

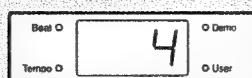
The Dual balance will be retained until the RD-100 is switched off.

- When the RD-100 is switched on, "5 - 5" will be automatically selected.

Demo Song/Keyboard Balance

Without changing the volume of the keyboard, you can alter the volume of the demo songs or recorded performance data (your own song) in 7 steps. A higher number results in a higher volume.

1. Select the desired Song with the **SONG [+/-]** buttons.
2. Set the volume using the **[+/-]** buttons while holding down **[TRACK 1]** or **[TRACK 2]**.



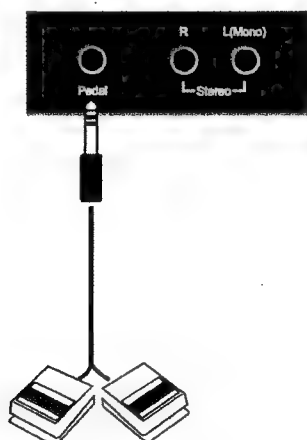
The setting range is 1~7.

Monitor the volume difference by starting song playback and playing on the keyboard.

- When the RD-100 is switched on, "4" will be automatically selected.
- It is not possible to change the volume of only one of the two Tracks.

Pedal/Footswitch Functions

The RD-100's PEDAL connector is a stereo connector, which means that you could work with two pedals/footswitches. If you connect the supplied DP-6 pedal to this jack, only the *Hold/Sustain* function is available. By using a special breakout cable (1 male stereo phone jack → 2x male mono jacks), you can also control the RD-100's *Soft* function.



Footswitches (BOSS FS-5U; optional)
connected using a special cable (PCS-31).

- Ask your Roland dealer for details about the footswitches and cables.

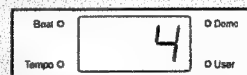
If you play the keyboard while pressing the "Soft" footswitch, the obtained sound will be softer than normal.

Changing the Amount of Resonance for the Damper Pedal

On an acoustic piano, pressing the damper pedal will create a resonance effect as other strings vibrate along with the strings of the notes you are playing. This adds rich vibration and spaciousness (we call *Sympathetic Resonance*). The RD-100 reproduces this kind of resonance.

The amount of the resonance can be changed in 7 levels. A higher value produces a deeper effect.

Hold down the **[REVERB]** and **[CHORUS]** buttons while setting the desired resonance with the **[+/-]** buttons.



The setting range for the Resonance effect is 1~7. The value you set is retained until the RD-100 is switched off.

- When the RD-100 is switched on, "4" will be automatically selected.
- This setting only applies to the *Piano1* and *Piano2* sounds.

MIDI Functions

If you do not intend to connect a MIDI instrument to the piano, you do not need to read this chapter.

MIDI

MIDI stands for *Musical Instrument Digital Interface*, an international standard which allows performance information to be communicated among electronic musical instruments and computers.

Connecting with MIDI Devices

The RD-100 features two MIDI connectors for transmitting and receiving performance messages to and from an external device. By connecting external devices through these jacks, you can expand the possibilities of your RD-100.

MIDI Connectors

The RD-100 features two types of MIDI connectors: MIDI OUT and MIDI IN jacks. By connecting the piano to an external MIDI device through these jacks, they can control each other. For instance, you can play an external device or change sounds on the external device from the piano.

MIDI OUT jack: This sends out messages describing actions (such as playing the keyboard) to the MIDI IN jack on the external device.

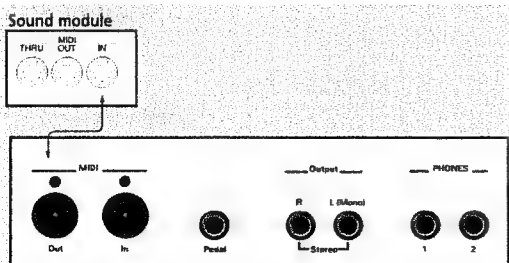
MIDI IN jack: This receives the MIDI messages sent by an external MIDI device.

The receiving MIDI device will act according to the MIDI messages received; such as produce sounds, change sounds, etc.

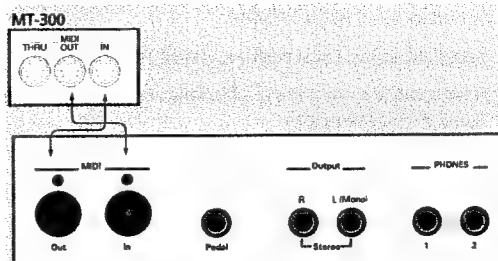
Connecting a MIDI Device

1. Switch off the piano.
2. Connect the MIDI jack (e.g. "OUT") of the external device to the opposite connector of the RD-100 (e.g. "IN") using an optional MSC-15/25/50 MIDI cable.

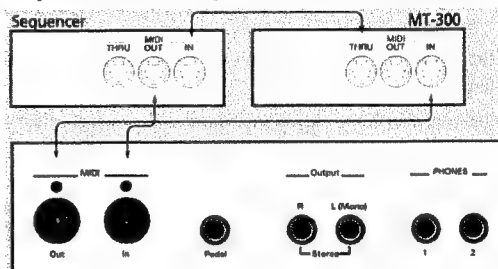
Setup Example: controlling a sound module



Setup with an MT-300



Setup with a MIDI Sequencer and Sound Module



If necessary, see below for how to set the MIDI Transmit Channel, Local Control ON/OFF, etc.

MIDI Transmit/Receive Channels

MIDI provides 16 channels. MIDI messages are communicated between two devices over a MIDI channel. Even if the two devices are connected properly with a MIDI cable, messages cannot be sent or received properly if the MIDI channels are not set correctly.

1. Hold down [TRANPOSE] while pressing the [ELECTRIC PIANO 2] button.
2. Set the MIDI transmit channel (for sending MIDI data) with the [+/-] buttons.
3. Press the [TRANPOSE] button and confirm that the indicator goes out.
4. Hold down [TRANPOSE] while pressing the [PIPE ORGAN] button.
5. Set the MIDI receive channel with the [+/-] buttons.
6. Press the [TRANPOSE] button and confirm that the indicator goes out.

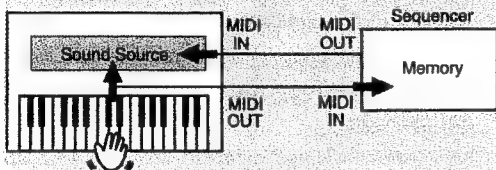
The MIDI channels you set are retained until the piano is switched off.

- If "ALL" is selected as receive channel, the RD-100 will always respond to incoming MIDI messages, no matter what channel these messages are transmitted on.

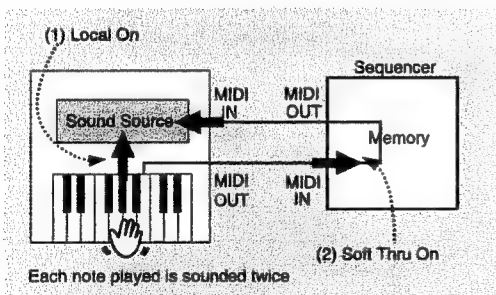
- You can also select sounds ("Tones") via MIDI by transmitting so-called "Program Change" messages on the selected MIDI channel.

Local Control

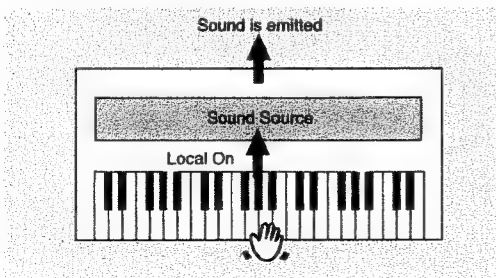
You can connect the RD-100 to a MIDI sequencer and record your performances with that sequencer. It goes without saying that these data can also be played back.



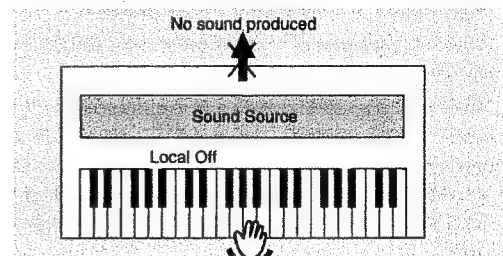
If the sequencer's (Soft) THRU (or MIDI Echo) function is turned on, the notes you record will be retransmitted right away to the RD-100 and thus played a second time. This happens because the keyboard information reaches the sound generator via two different routes (1) and (2). This makes the performance sound strange, and greatly reduces the number of available voices. To resolve this, we can disable route (1) by setting the RD-100 to LOCAL OFF.



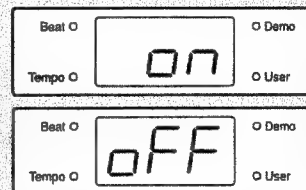
Local ON: In this mode, the keyboard is connected to the RD-100's sound source.



Local Off: The keyboard and the internal sound module are disconnected. No sound will be heard when you play on keyboard.



1. Hold down [TRANPOSE] while pressing the [STRINGS] button to select the Local function (currently on).
2. Local can be toggled On/Off by pressing the [+/-] buttons.



3. Press the [TRANPOSE] button and confirm that the indicator goes out.

The Local on/off setting you make here is retained until the piano is switched off.

- When neither MIDI connector of the RD-100 is connected to an external instrument, you cannot select Local Off.
- A MIDI sequencer is a device that records performance data in the form of MIDI messages, then plays it back. Roland offers the MC-80, MC-50MkII, and MT-300/MT-300S. The latter combine both a sequencer and sound module.

The Local function can also be set using so-called "MIDI Local Control" messages. When the piano is set up with an MT-80/120/300, a Local Off message is transmitted as soon as you switch on the MT. This only works if you first switch on the MT, and then the RD-100.

MIDI Transmit Mode

There are two Transmit modes for sending MIDI messages. Select the one that suits your purpose.

- *Note and Pedal messages can be transmitted and received in any mode.*

Mode 1: This mode allows the piano to transmit only the performance messages (information concerned with playing the keyboard or pressing the pedals) to the external MIDI device. When you select other sounds on the RD-100 it thus does not transmit Program Change messages.

Mode 2: This mode allows the piano to transmit various MIDI messages as well as normal performance information. When you select a sound on the RD-100, the corresponding Program Change will be transmitted. This mode may be convenient when recording performances into a sequencer.

1. Hold down the [TRANPOSE] button while pressing [CHORUS].
2. Select the Transmit Mode ("1" or "2") with the [+/-] buttons.
3. Press the [TRANPOSE] button and confirm that the indicator goes out.

The Transmit Mode you select here will be retained until the piano is switched off. When the RD-100 is switched on, MODE 1 will be automatically selected.

MIDI messages	Mode	
	1	2
	Transmit	Transmit
Note messages	o	o
Program changes	*1	o
Control change messages (CC)		
Volume (CC07)	x	x
Damper/Hold (CC64)	o	o
Soft pedal (CC67)	o	o
Expression (CC11)	o	o
Chorus on/off (CC93)	x	o
Reverb on/off (CC91)	x	o
Master Tune (RPN)	x	o
Roland SysEx messages		
Temperament selection	x	o
Stretch Tuning selection	x	o
Dual balance selection	x	o
Chorus depth selection	x	o
Reverb depth selection	x	o
Pedal resonance amount	x	o

*1: No message will be transmitted by selecting a new Tone on the piano.

Transmitting and Receiving Program Changes

Transmitting

Program Changes numbers can be transmitted as follows. This may be necessary for remotely controlling a module, etc., without selecting another sound on the RD-100 itself:

1. Hold down [TRANPOSE] while pressing the [REVERB] button.
2. Press the [REVERB] button again, and the display shows the Group, Bank, and Number.
3. Set the Program Change Number with the [+/-] buttons.
4. Press the [TRANPOSE] button and confirm that the indicator goes out.

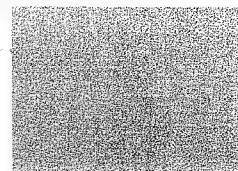
The Program Change number you have set will be retained until the piano is switched off.

Group A

	Number							
	1	2	3	4	5	6	7	8
1	1	2	3	4	5	6	7	8
2	9	10	11	12	13	14	15	16
3	17	18	19	20	21	22	23	24
4	25	26	27	28	29	30	31	32
5	33	34	35	36	37	38	39	40
6	41	42	43	44	45	46	47	48
7	49	50	51	52	53	54	55	56
8	57	58	59	60	61	62	63	64

Group B

	Number							
	1	2	3	4	5	6	7	8
1	65	66	67	68	69	70	71	72
2	73	74	75	76	77	78	79	80
3	81	82	83	84	85	86	87	88
4	89	90	91	92	93	94	95	96
5	97	98	99	100	101	102	103	104
6	105	106	107	108	109	110	111	112
7	113	114	115	116	117	118	119	120
8	121	122	123	124	125	126	127	128



Receiving

When the RD-100 receives a Program Change number, the corresponding tone will be selected as shown in the following list. When the Transmit Mode 2 is selected, the Program Change that corresponds to the Tone will also be transmitted.

Program Change	Sound
1	Piano1
2	Piano2
4	Harpsichord
5	Vibraphone
6	Electric Piano1
7	Electric Piano2
8	PipeOrgan
9	Strings
10	Piano1+Piano2
11	Piano1+Harpsichord
12	Piano1+Vibraphone
13	Piano1+Electric Piano1
14	Piano1+Electric Piano2
15	Piano1+PipeOrgan
16	Piano1+Strings
17	Piano2+Harpsichord
18	Piano2+Vibraphone
19	Piano2+Electric Piano1
20	Piano2+Electric Piano2
21	Piano2+PipeOrgan
22	Piano2+Strings
23	Harpsichord+Vibraphone
24	Harpsichord+Electric Piano1
25	Harpsichord+Electric Piano2
26	Harpsichord+PipeOrgan
27	Harpsichord+Strings
28	Vibraphone+Electric Piano1
29	Vibraphone+Electric Piano2
30	Vibraphone+PipeOrgan
31	Vibraphone+Strings
32	Electric Piano1+Electric Piano2
33	Electric Piano1+PipeOrgan
34	Electric Piano1+Strings
35	Electric Piano2+PipeOrgan
36	Electric Piano2+Strings
37	PipeOrgan+Strings
38	Acoustic Bass/Piano1
39	Acoustic Bass/Piano2
40	Strings/Harpsichord
41	Acoustic Bass/Vibraphone
42	Acoustic Bass/Electric Piano1
43	Acoustic Bass/Electric Piano2
44	PipeOrgan/Harpsichord
45	Strings/Piano1

- 10~37 are for Dual Play, while 38~45 are for the Split mode.
- 3, and 46~128 will be ignored.

Troubleshooting

If the piano does not work properly, check the following first:

The piano cannot be switched on

Check that the power cord is securely and correctly connected.

No sound is heard

Check that the [VOLUME] slider is not set to the far left position.

Check if the RD-100 is connected to an amplifier and whether the amp, etc., is switched on.

No sound is heard (when an external MIDI device is connected)

Check whether all relevant devices are switched on.

Check whether Local is set to "Off".

Demo song cannot be played

Check whether the indicator of a Track button lights. No sound is heard from a Track whose indicator is dark. Press the Track button to light it.

During recording or playback, you cannot select other demo songs. Stop recording or playback.

Two tones are played when keyboard is pressed

Check whether the Dual mode is active.

If a sequencer is connected, check whether its Soft THRU function is turned off.

Not all notes sound

The maximum number of voices of the RD-100 is 64. If you play along with a demo song and frequently use the Pedal, and the performance data exceeds the maximum voices, so that some notes are cut off.

The pitch of the keyboard or demo songs sounds incorrect.

Check whether the Key Transpose is off.

Check the temperament and Stretch Tuning settings.

Check the Master Tuning setting.

Pedal is not functioning properly; it does not have any effect, or it stays on.

Check that the pedal is securely and correctly connected.

Recorded data is erased

Did you press the [REC] button while holding the Track button down?

About 8 hours after the piano is disconnected from the wall outlet, the data will be automatically erased. Once data is erased, it cannot be restored.

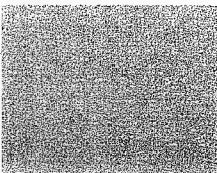
Specifications

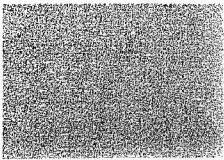
RD-100 Digital Piano

Keyboard	88 keys (Hammer Action Mechanism)
Sound source	64-voice polyphonic
Tones	Piano 1, Piano 2, Harpsichord, Vibraphone, Electric Piano 1, Electric Piano 2, Pipe Organ, Strings, *Honky Tonk Piano (* in Dual mode)
Display	7-segment LED/3 characters
Effects	Chorus (7 levels), Reverb (7 levels)
Tuning	Equal Temperament, Pythagorean, Just (Major/Minor), Mean Tone, Werckmeister, Kirnberger.
Stretch Tuning	2 Types
Key Touch	3 Levels (Light/Medium/Heavy)
Key Transpose	-6~+5 semitones (Keyboard entry/button entry)
Sequencer	2 Tracks (with Track Muting Function) Approx. 5,000 notes

Metronome	0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8, adjustable volume (7 levels), adjustable tempo ♩ = 20~250
Jacks	Headphone Jack x 2 (stereo), Output Jacks (stereo/mono), MIDI Connectors (In/Out), Pedal jack
Pedals	Damper (+Soft via special break-out cable, PEDAL jack is stereo)
Finish	Black stage look.
Power	Universal, auto-switching power supply AC 100V~240V
Power Cons.	8W
Dimensions	1,360 (W) x 121 (D) x 346 (H) mm
Weight	24.0 kg
Accessories	Owner's Manual, Power Cord, DP-6 Hold pedal/Foot Switch
Options	Music Rest, MSC series MIDI cables, KS-12 keyboard stand, KC series keyboard amplifiers, RH series headphones.

(*) Specifications are subject to change without notice.





DIGITAL PIANO
Model RD-100

MIDI Implementation Chart

Date : Jan. 1999
Version : 1.05

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1-16	1-16 1-16	
Mode	Default Messages Altered	Mode 3 x *****	Mode 3 Mode 3, 4(M=1)	
Note Number :	True Voice	15-113 *****	0-127 15-113	
Velocity	Note ON Note OFF	O x 8n v=64	O x	
After Touch	Key's Ch's	x x	x x	
Pitch Bend		x	x	
Control Change	6, 38 7 11 64 67 91 93 100, 101	O *1 x O O O x *1 x *1 x *1	O *1 O O O O O (Reverb) O (Chorus) x	Data entry Volume Expression Hold 1 Soft Effect1 depth Effect3 depth RPN LSB, MSB
Prog Change	: True #	O 0-127 *****	O 0, 1, 3-44	
System Exclusive		x *1	O	
System Common	: Song Pos : Song Sel : Tune	x x x	x x x	
System Real Time	: Clock : Commands	x x	x x	
Aux Message	: All sound off : Reset all controllers : Local ON/OFF : All Notes OFF : Active Sense : Reset	x x x x O x	O O O O (123-127) O x	
Notes	* 1 O x is selectable.			

Mode 1 : OMNI ON, POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO
Mode 4 : OMNI OFF, MONO

O : Yes
X : No

Demo Song

1. Massimiliano Coclite	Demo 1
2. Massimiliano Coclite	Demo 2
3. Domenico Scarlatti	Sonata in Do maggiore
4. Massimiliano Coclite	Demo 3
5. Massimiliano Coclite	Demo 4
6. Massimiliano Coclite	Demo 5
7. Johann Sebastian Bach	Prélude, Das wohltemperierte Klavier 2
8. Massimiliano Coclite	Demo 6
9. Frédéric Chopin	Nocturne in E-flat Major op.9-2
10. Wolfgang Amadeus Mozart	Sonate für Klavier No.11 K.331,"Türkischer Marsch"
11. Frédéric Chopin	Valse No.6 "Petit chien" op.64-1
12. Frédéric Chopin	Polonaise No.6 "Hérolque" op.53
13. Frédéric Chopin	12 Etudes "Black keys" op.10-5
14. Carl Czerny	Wiener Marsch
15. Gabriel-Urbain Fauré	Dolly op.56-Berceuse
16. Theodor Oesten	Dolly's Dreaming Awakening op.202-4
17. Albert Ellmenreich	Spinnerlied op.14-4
18. Johann Sebastian Bach	Aus dem zweiten Notenbuch der Anna Magdalena Bach, Menuett BWV.Anh.114
19. Francois Joseph Gossec	Gavotte
20. Wilma Anderson-Gilman	Battle of Waterloo
21. Hermann Necke	Csikos Post
22. Ludwig van Beethoven	6 Menuette WoO.10 No.2 G-dur
23. Robert Schumann	Album für die Jugend op.68 No.10 "Fröhlicher Landmann"

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

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- EMC 89/336*

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- EMC 89/336*

Cet instrument est conforme aux directives CE suivantes:

- BASSE TENSION 73/23
- EMC 89/336*



Questo prodotto è conforme alle seguenti direttive CEE

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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This equipment requires shielded interface cables in order to meet FCC class B Limit.

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AVIS

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RD-100

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